

CLAIMS

1. A micro-resonator, wherein a plurality of micro-resonator devices having a beam structure formed on a substrate are connected in parallel electrically.

2. A micro-resonator according to claim 5, wherein said plurality of micro-resonator devices in said filter include a plurality of micro-resonator devices provided with beams serving as diaphragms disposed across a space in an opposing relation with respect to input electrodes and output electrodes disposed on the same plane, and said plurality of micro-resonator devices are disposed on the same substrate in parallel.

3. A micro-resonator according to claim 1, wherein said plurality of micro-resonator devices are composed of multi-beam type micro-resonator devices provided with input electrodes and output electrodes disposed on the same plane and beams serving as diaphragms disposed in parallel across a space in an opposing relation with respect to said input electrode and said output electrodes.

4. A micro-resonator according to claim 1, wherein said plurality of micro-resonator devices are provided with a plurality of multi-beam type micro-resonator devices including input electrodes and output electrodes disposed on the same

plane and beams serving as diaphragms disposed in parallel across a space in an opposing relation to said input electrodes and said output electrodes, and said plurality of multi-beam type micro-resonator devices are disposed on the same substrate in parallel to each other.

5. A communication apparatus including a filter for band-limiting a transmission signal and/or a reception signal, wherein a filter composed of a micro-resonator in which a plurality of micro-resonator devices having a beam structure formed on the same substrate are connected in parallel electrically is used as said filter.

6. A micro-resonator according to claim 5, wherein said plurality of micro-resonator devices in said filter include a plurality of micro-resonator devices provided with beams serving as diaphragms disposed across a space in an opposing relation with respect to input electrodes and output electrodes disposed on the same plane, and said plurality of micro-resonator devices are disposed on the substrate in parallel.

7. A micro-resonator according to claim 5, wherein said plurality of micro-resonator devices in said filter include multi-beam type micro-resonator devices provided with input electrodes and output electrodes disposed on the same plane and

beams serving as a plurality of diaphragms disposed in parallel across a space in an opposing relation with respect to said input electrodes and said output electrodes.

8. A micro-resonator according to claim 5, wherein said plurality of micro-resonator devices in said filter include a plurality of multi-beam type micro-resonator devices provided with beams serving as a plurality of diaphragms disposed in parallel to each other across a space in an opposing relation with respect to said input electrodes and said output electrodes, and said plurality of multi-beam type micro-resonator devices are disposed on the same substrate in parallel.